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Event Report:

Australia's biggest week in biotech kicks off in Perth

Australia and India approves commercial release of GM variety of Indian mustard

Pfizer admits COVID vaccine was never tested for transmission

Guestorial:

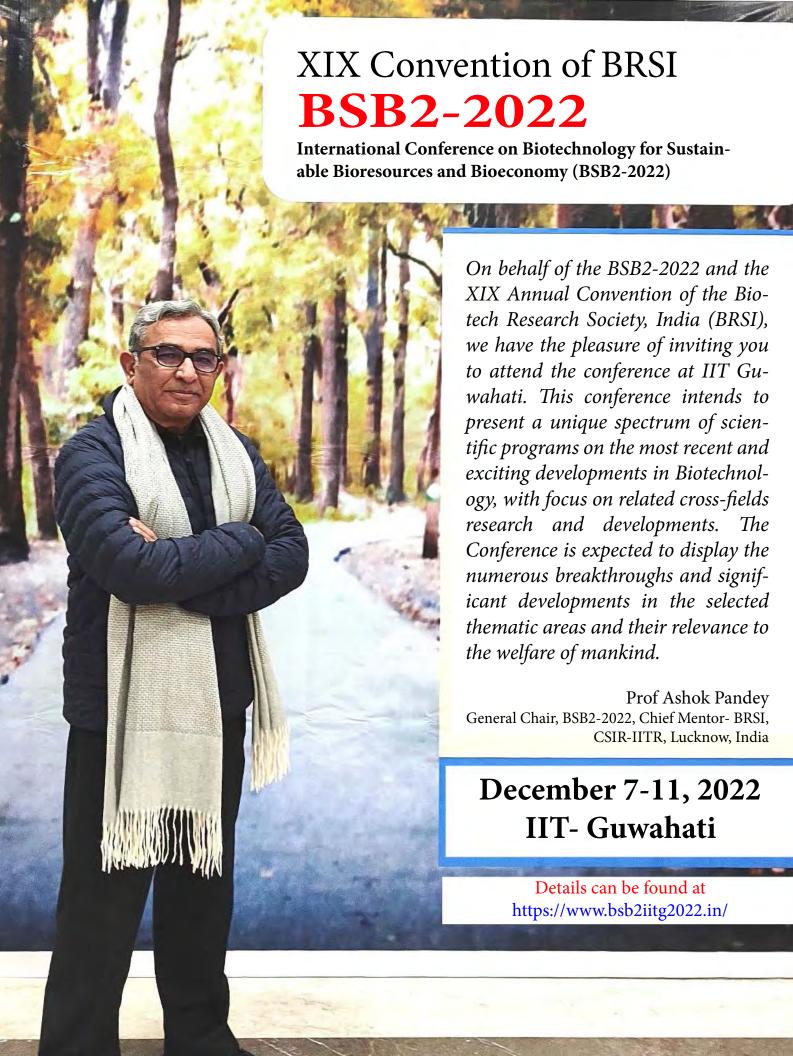
Malnutrition accelerates the metabolic age

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CONTENT

Editorial: Who is The Real Anthony Fauci? A true Doctor, liar, pharma profiteer or a totalitarian? | p8

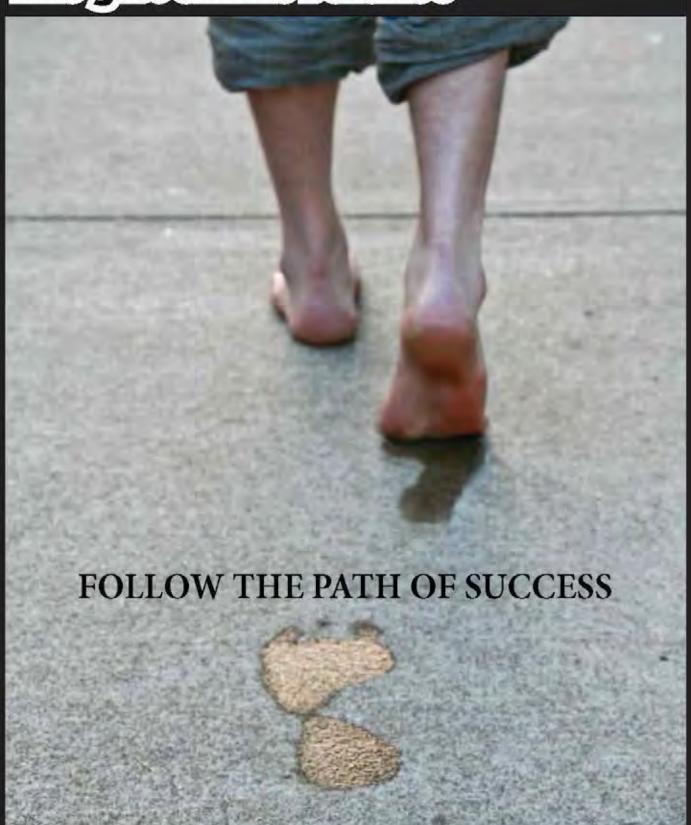
Guestorial: Malnutrition accelerates the metabolic age | p20

Event Report: Australia's biggest week in biotech kicks off in Perth | p14

Featured BioNews p24

- ▶ \$3 trillion growth reported for biotech sector
- ▶ Australia and India approves commercial release of GM variety of Indian mustard
- ► Court Orders CDC to Release Data Showing 18 Million Vaccine Injuries in America
- ▶ IIT Mandi researchers develop simple & portable device to detect ischemic stroke
- ▶ IIT Roorkee researchers identify proteins in saliva that can predict triple negative breast cancer
- ▶ Need to set up 20 active sentinel sites in country on adverse events following immunisation: expert
- ▶ Pfizer admits COVID vaccine was never tested for transmission
- ▶ Protest held against SII, Bill Gates over 'deaths after taking Covid-19 vaccine'
- ▶ The Gates Foundation is Researching How to Manipulate You Into Taking 'Future' COVID Vaccines
- ► Salman Khan's body double Sagar Pandey dies of suspected heart attack
- ▶ UP: Govt School Vaccinates 150 Kids Without Consent; Many Hospitalised
- ▶ Top cardiologist calls for halt to COVID vaccination
- ▶ Biocon Biologics Out-Licenses Two Biosimilar Assets to Yoshindo for Commercialization in Japan
- ▶ Novartis' Zolgensma Under Fire Again as Nature Retracts 2010 Paper
- ▶ Hindawi and Wiley to retract over 500 papers linked to peer review rings

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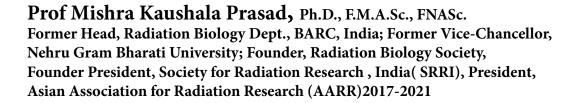
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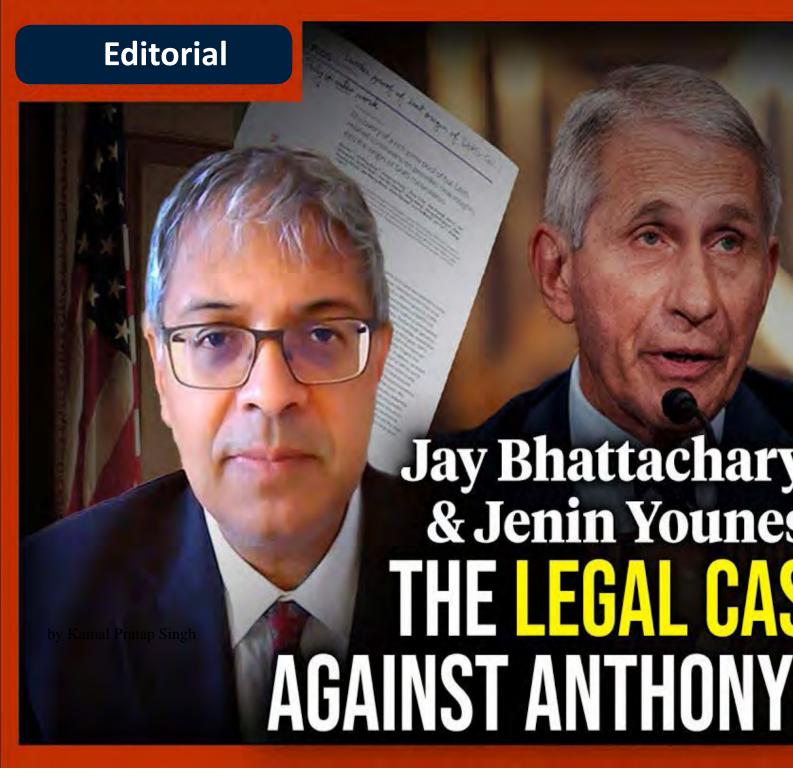
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Who is The Real Anthony Fauci? A true Doctor, liar, pharma profiteer or a totalitarian?

If vacc!nes are the solution to this pandemic, how can you explain

all the people that have died after being vacc!nated? In USA, no one likes Fauci except the people who

are directly getting benefits from his speech and actions, these people are mainly the leaders who en-

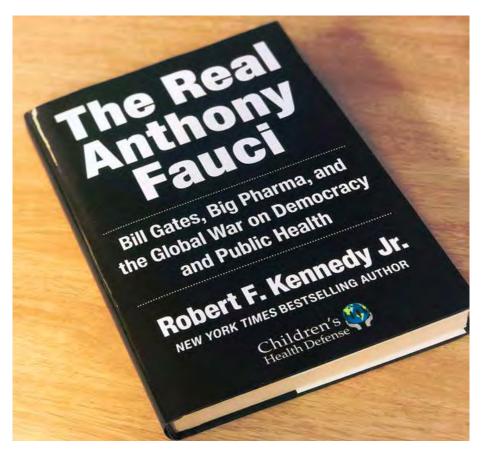


BOX: About the Author Robert F. Kennedy Jr.



Robert F. Kennedy Jr. is the chairman of the board and chief legal counsel for Children's Health Defense. He is also counsel to Morgan and Morgan, a nationwide personal injury practice, and the founder of Waterkeeper Alliance. Kennedy is an esteemed author, with a long list of published books including the New York Times bestseller, Crimes Against Nature, as well as American Values: Lessons I Learned from My Family and Thimerosal: Let the Science Speak. Mr. Kennedy was named one of Time magazine's "Heroes for the Planet" for his success helping Riverkeeper lead the fight to restore the Hudson River. His reputation as a resolute defender of the environment and children's health stems from a litany of successful legal actions. He received recognition for his role in the landmark victory against Monsanto, as well as in the DuPont case that inspired the movie Dark Waters (2019).

The film's director, Jeff Hays, says, "I was aware of what Fauci was doing during COVID, but I had no idea [of] his history and the damage that he had done and the power base that he had built during the AIDS crisis and how much he hurt people all over the world as he really assembled his powerbase during that period."



joy control over people and pharma companies which are making billions of dollars because of the misinformation about diseases that is spread by Anthony Fauci. Now when he is ready to leave his organization that he is controlling since 40 years, some political figures likeRand Paul Jim Jordan etc. are not ready to depart him just like that and held responsible for the mess he has created in the name of pandemic.

In this article we are discussing why he is under fire by US people and how it is connected with India. You may follow these trending topics about #Fauci, #Bill Gates #pandemic etc. on twitter where people are flooding tweets about them.

Recently, according to October,

2022 order, a federal judge has ordered Dr. Anthony Fauci and other Biden officials to be deposed as part of a lawsuit against the Biden administration, alleging that the government colluded with social media companies to censor free speech related to the coronavirus and other controversial topics. (https://nypost.com/2022/10/24/ fauci-psaki-can-be-deposed-incensorship-lawsuit/)

And "The Real Anthony Fauci. The Movie"

The Real Anthony Fauci. The Movie (Available at https://www. therealanthonyfaucimovie.com/ viewing/) shows the other side of Fauci which is described by re-

nowned scientists all over the world, here we present the facts that are discussed in this movie and on other news platforms. This new movie should not be confused with the earlier movie on Fauci in which National Geographic depict him as a hero of medical fraternity (https://films.nationalgeographic. com/fauci)

Based on Robert F. Kennedy, Jr.'s best-selling book, The Real Anthony Fauci: Big Pharma's Global War on Democracy, Humanity, and Public Health, the film closely examines Fauci's relationship, and influence, on government policy and the pharmaceutical industry.

Over 1,000,000 copies sold despite censorship, boycotts from bookstores and libraries, and hit pieces against the author.

The movie discusses how social psychologists after WWll have proven that the concept of destructive compliance is alive and well even after the death of Hitler. The elevation of a total miscreant like Anthony Fauci to godlike status is their evidence.

Dr. Robert Malone (an American physician and biochemist) aptly termed this Mass Formation Psychosis. We blindly follow the man who created this deadly disease, Fauci and insanely worship at the alter of this corrupt, incompetent, gold digging fraudster. The duplicitous big pharma sponsored media constantly propagandize that the only one that can save us is the most dangerously corrupt person in history.

World renowned, outstanding

Table: Cast in the movie "The Real Anthony Fauci".

Robert F. Kennedy Jr.	Self - Environmental Lawyer, Author of 'The Real Anthony Fauci'				
Peter McCullough	Self - Internist, Cardiologist, Epidemiologist				
Stephanie Seneff	Self - Senior Research Scientist at MIT (as Dr. Stephanie Seneff)				
Sherri Tenpenny	Self - DO, AOBNMM, ABIHM (as Dr. Sherri Tenpenny)				
Pierre Kory	Self - Chief Medical Officer of the Front Line COVID-19 Critical Care Alliance (as Dr. Pierre Kory)				
Mark Crispin Miller	Self - Professor of Media Studies at the New York University				
Mary Holland	Self - CHD President & General Counsel				
Celia Farber	Self - Author of 'Serious Adverse Events, An Uncensored History of AIDS'				
Vera Sharav	Self - President of the Alliance for Human Research Protection 'AHRP.org', Holocaust Survivor				
Naomi Wolf	Self - Author of 'The Body of Others, The New Authoritarians, COVID-19 and the War against the Human', CEO of 'Dailyclout.io'				
Tess Lawrie	Self - Director of Evidence-based Medicine Consultancy Ltd (as Dr. Tess Lawrie)				
Whitney Webb	Self - Investigative Journalist at Unlimited Hangout				
Joseph Mercola	Self - Osteopathic Physician, 'mercola.com' (as Dr. Joseph Mercola)				
Michael Yeadon	Self - Pharmacology (as Dr. Michael Yeadon)				
Harvey Risch	Self - Professor Emeritus of Epidemiology at the Yale School of Public Health (as Dr. Harvey Risch)				
Robert W. Malone	Self - Original Inventor, mRNA Vax Platform, Analyst, Biotechnology Consultant, Bioethicist				
Paul Ellis Marik	Self - Chief Medical Officer, Critical Care Specialist				
Jeff Hays	Self - Producer, Director				
Anthony Fauci	Self - Director of the National Institute of Allergy and Infectious Diseases (archive footage)				
Donald Trump	Self - 45th President of the United States (archive footage)				
Tedros Adhanom Ghebreyesus	Self - Director-General of the World Health Organization (archive footage)				
Bill Gates	Self - Bill & Melinda Gates Foundation (archive footage)				
Boris Johnson	Self - UK Prime Minister (archive footage)				
Andrew Hill	Self - World Health Organization (archive footage)				
Joe Rogan	Self - The Joe Rogan Experience (archive footage)				
Jimmy Dore	Self - The Jimmy Dore Show (archive footage)				
Kary B. Mullis	Self - Inventor of PCR Technology (archive footage)				
Michael Callahan	Self - Epidemiologist (as Dr. Michael Callahan) (credit only)				
Didier Raoult	Self - French Microbiologist (archive footage)				
Mark Zuckerberg	Self - Facebook (archive footage)				
Hank Aaron	Self - Professional Baseball Player (archive footage)				
Robert Gallo	Self - HIV Researcher (archive footage)				
Luc Montagnier	Self - Virologist, Nobel Prize Laureate (archive footage)				
Peter Duesberg	Self - Professor of Molecular Biology at the University of California at Berkeley (archive footage)				



medical professionals Malone, Dr Pierre Kory, Dr Harvey Risch, Dr. Peter McCullough, Dr Naomi Wolfe, Dr. Joseph Mercola, Dr. Simone Gold, Dr. Michael Yeadon and Dr. Kary Mullis must be censored and viciously destroyed by the politburo agencies and mainstream media. Comcast and CNN news anchors lie and tell us effective treatments like Hydroxychloroquine and Ivermectin are dangerous, knowing full well that they are safe and effective, leading to the deaths of millions.

Now Pfizer admits that they never tested that the vaccine would prevent transmission. Babies are dying because the vaccine is in mother's milk and our blood supply is tainted and may be toxic with transfusions. We know if there is any efficacy at all with the vaccines it is very limited. If that's not enough, the senseless Fauci lockdowns destroyed the economy and lives. This all contributed to a dangerously weakened immune system.

Fauci is Dr. Mengele (known as the Angel of Death) on a world stage. He (Fauci) gave millions to a Chinese communist lab that the French determined was not safe for the gain-of-function experiments they were doing. Fauci experimented on black disabled children causing horrific injuries and deaths.

Fauci collaborated with Bill Gates on deadly experiments in Africa. His gruesome experiments on beagle puppies just confirmed his obsession with attacking the defenseless. However, Fauci wasn't through with his trail of destruction. He had to destroy the Hippocratic Oath and turn the medical community into an illicit corporatist nightmare envisioned by malefactor John D Rockefeller.

Pharma-funded mainstream media has convinced millions of Americans that Dr. Anthony Fauci is a hero. Hands down, he is anything but. As director of the National Institute of Allergy and Infectious Diseases (NIAID), Dr. Anthony Fauci dispenses \$6.1 billion in annual taxpayer-provided funding for rigged scientific research, allowing him to dictate the subject, content, and outcome of scientific health research across the globe—truly a dark agenda.

Fauci uses the financial clout at his disposal in a back handed manner to wield extraordinary influence over hospitals, universities, journals, and thousands of influential doctors and scientists-whose careers and institutions he has the power to ruin, advance, or reward in an authoritarian manner.



During more than a year of painstaking and meticulous research on his laptop and through interviews, Robert F. Kennedy Jr. unearthed a shocking story that obliterates media spin on Dr. Fauci . . . and that will alarm every American-Democrat or Republican—who cares about democracy, our Constitution, and the future of our children's health. The Real Anthony Fauci reveals how "America's Doctor" launched his career during the early AIDS crisis by partnering with pharmaceutical companies to sabotage safe and effective offpatent therapeutic treatments for AIDS.

Fauci orchestrated fraudulent do-nothing studies, and then pressured US Food and Drug Administration (FDA) regulators into approving a deadly chemotherapy treatment he had good reason to know was worthless against AIDS. Fauci did the unthinkable and repeatedly violated federal laws to

allow his Pharma partners to use impoverished and dark-skinned children as lab rats in beyond order, deadly experiments with toxic AIDS and cancer chemotherapies.

In early 2000, Fauci shook hands with Bill Gates in the library of Gates' \$147 million Seattle mansion, cementing a partnership that would aim to control an increasingly profitable \$60 billion global vaccine enterprise with unlimited growth potential. Through funding leverage and carefully cultivated personal relationships with heads of state and leading media and social media institutions, the Pharma-Fauci-Gates alliance exercises dominion over global health policy and our beautiful country.

This is not just another political book. The Real Anthony Fauci details how Fauci, Gates, and their cohorts use their control of media outlets—both conservative and liberal leaning, scientific journals, key government and

quasi-governmental agencies, global intelligence agencies, and influential scientists and physicians to flood the public with fearful propaganda about COVID-19 virulence and pathogenesis, and to muzzle debate and ruthlessly censor dissent, one of the reviewer wrote.

In his book, The Real Anthony Fauci, Robert F. Kennedy Jr. describes how journalist Liam Scheff chronicled Fauci's "secretive experiments on hundreds of HIV-positive foster children at Incarnation Children's Center (ICC) in New York City and numerous sister facilities in New York and six other states between 1988 and 2002" (p. 245).

He describes in detail how "Fauci's NIAID (National Institute of Allergy and Infectious Diseases) and his Big Pharma partners turned Black and Hispanic foster kids into lab rats, subjecting them to torture and abuse in a grim parade of unsupervised drug and vaccine studies" (p. 246).

The real Anthony Fauci was a greedy egomaniac hell bent on creating an image of himself as the savior of the world during the AIDS crisis while generating billions in profits for his pharmaceutical industry "partners."

The "partners" would then share some of the loot with Fauci and others in various ways, including sharing in patent rights, the "revolving door" of very highly paid jobs for former government bureaucrats, paying multimillion dollar "user fees" to the NIAID, distributing shares of stock, etc.

The pharmaceutical industry "remunerated Incarnation Children's Center ... for supplying children for the tests," writes Kennedy. The "tests" involved giving the children experimental drugs that were "toxic—they're known to cause genetic mutation, organ failure, bone marrow death, bodily deformations, brain damage, and fatal skin disorders" (p. 246).

Torture is not too strong a word to describe what happened to these children. "If the children refuse the drugs," says Kennedy, "they're held down and force fed. If the children continue to resist, they're taken to Columbia Presbyterian hospital, where a surgeon puts a plastic tube through their abdominal wall into their stomachs. From then on, the drugs are injected directly into their stomachs" (p. 246). This wasn't science fiction or a sick horror movie, says Kennedy, but Fauci-funded "AIDS research."

Many of these children died as a result of the "research." Investigative journalist Vera Sharav, who spent years investigating all of this, told Kennedy that Fauci "just brushed all those dead babies under the rug. They were collateral damage in his career ambitions." She said that at least 80 children died from Fauci's drug torture chamber in the Manhattan foster home ALONE.



Image Source: https://www.nationalgeographic.com/history/ article/fauci-recalls-the-terrifying-early-days-of-the-aids-epidemic

You probably never heard of this, but the BBC produced a documentary of "the savage barbarity of Dr. Fauci's science projects" in 2004 entitled "Guinea Pig Kids (https:// www.voutube.com/watch?v=is-6Dtx8bXSU)." A BBC investigative journalist said in the documentary that "I found the mass graves at Gate of Heaven cemetery in Hawthorne, New York.... I couldn't believe my eyes. It was a very large pit with AstroTurf thrown over it.... Under it one could see dozens of plain wooden coffins ... there may have been 100 of them" (p. 247).

The New York City Administration of Child Services commissioned a four-year investigation of Fauci's Dr. Mengele-style "experiments" and found that eighty of the 532 children who participated in Fauci's "clinical trials" died and twenty-five died while enrolled in

a medication trial (p. 251). By 2003 Fauci's NIAID was running 10,906 clinical trials involving children in ninety countries (p. 257).

Today Fauci, his longtime vaccine-manufacturing billionaire partner Bill Gates, Big Pharma, and the World Economic Forum are desperately campaigning to have every child in the world even infants-injected with their latest "vaccine."

These are the same people who have publicly fantasized about all humans someday having an implanted "digital ID" in their bodies to achieve their goal of "transhumanism." They say they want a digital ID implanted into everyone for purposes of government monitoring of all human behavior by some kind of super, international government institution.



Image Source: https://www.dailymail.co.uk/news/article-10125599/Fauci-fire-puppy-experiments-utilized-disease-causing-parasites.html

Another charming fact about Fauci that Kennedy discuses is that Fauci has also funded (with your hardearned tax dollars) experiments where Beagle puppies had their heads locked into cages where they could be eaten to death by flies.

He also gave University of Pittsburgh "researchers" \$400,000 to "graft the scalps of aborted fetuses onto living mice and rats" (p. 253). Not exactly the type of job one would expect a good Jesuit Catholic schoolboy like Anthony Fauci to have.

The man is in reality "a sociopath who has pushed science into the realm of sadism" writes Kennedy (p. 253).

Fauci - The Lying Man

Government bureaucrats love crises like wars, hurricanes, depressions, pandemics, etc. because in times of crises millions of average citizens become childlike, their IOs seem to be cut in half (at least), and they beg for a substitute mommy and daddy to protect them, their new mommy and daddy being the state. All of a sudden they are willing to abandon all of their civil liberties and embrace totalitarianism like a drowning man embraces the side of a lifeboat. This is exactly the behavior of millions of Americans since March of 2020.

The *absence* of a crisis, on the other hand, creates a crisis *for government bureaucrats*. To the bureaucrat there is a crisis whenever there is no real crisis. It is imperative,

therefore, that every government bureaucrat becomes a hysteric who is constantly trying to alarm the public with the *perception* of a crisis or an impending crisis. He (Fauci) is professional liar, in other words, and can rely on the socialist indoctrination organs known as "the media" to hype his crises. After all, it's *perceptions* that count in politics, not reality.

Fauci is no more than your ordinary, run-of-the-mill bureaucratic crisis monger and serial liar, as Kennedy documents in chapter 11, "Hyping Phony Epidemics: Crying Wolf." Early in his government career Fauci was involved in promoting hysteria over what was called the "swine flu."

NIAID and its pharmaceutical industry puppet masters told Congress and the White House that the swine flu was the same strain of virus that caused the infamous 1918 Spanish flu epidemic that is

Patients injured by the experimental swine flu vaccine filed 1,604 lawsuits forcing the government to pay out over \$80 million in damages and incur tens of millions in legal fees.



US Senator Rand Paul has been one of Fauci's sharpest critics, and the two have repeatedly clashed in Senate hearings when Fauci testified.

said to have killed 50 million people worldwide. The government poured money into Fauci's NIAID and Big Pharma made big bucks by getting President Ford (in 1976) to give them \$135 million to supposedly inoculate 140 million Americans. In the end, writes Kennedy, "the actual number of pandemic swine flu casualties in 1976 was not 1 million but 1" (p. 358).

Then there was the 2005 "bird flu" hysteria where Fauci once again predicted "unprecedented carnage." This time he partnered with Bill Gates and hired the now disgraced and discredited British conman statistician Neil Ferguson to construct "models" that predicted up to 150 million people could die from the bird flu. In the end, about 100 people died from it, and most probably had comorbidities that were the real causes of death. That was after President Bush asked Congress for \$1.2 billion for Big Pharma to come up with another of its experimental vaccines.

The 2009 Hong Kong swine flu caper was a carbon copy of the earlier ones. Fauci promised to "fast track" a vaccine once again, and the media dutifully poured on the government-sponsored hysteria.

By the Fall of 2009 thousands of complaining Americans were about devastating side effects of the new Fauci shot. Fauci promised the public that Big Pharma's

new drug was "perfectly safe" but in reality there was "an explosion of grave side effects, including miscarriages, narcolepsy, and febrile convulsions" as well as "severe neurological injuries, paralysis from Guillian-Barre syndrome ... and cataplexy" as well as brain damage (p. 365).

Some things never change. The epidemic never materialized and "As usual, there was no investigation of Dr. Fauci or the other medical officials who choreographed this multi-billion-dollar fraud" 366). Congress would never "investigate" it because too many fingers would be pointed at them for funding the whole charade. They just collect their millions in

"campaign contributions" from Big Pharma as a form of kickback for the millions in taxpayer dollars given to these corporations and then move on to the next phony health crisis for which they will also take no responsibility.

In 2016 Fauci diverted billions from taxpayer-funded research on malaria, influenza, and tuberculosis to his newest scam, the "zika virus." Right on cue, he enriched his Big Pharma partners with \$2 billion to produce yet another vaccine to prevent microcephaly, a supposed effect of the zika virus. In the end, there were fifteen cases of the virus in the US and none of them was associated with microcephaly. "Dengue fever" was another Fauci scam in that same year that funneled additional billions to Big Pharma with—surprise!—the exact same scenarios and results.

In every single instance, Kennedy writes, Fauci and others at National Institutes of Health, the Food and Drug Administration, and the Centers for Disease Control and Prevention load up the committees that vote for permission to market all of these experimental drugs with people who have Big Pharma connections or who are current executives for one or another pharmaceutical company. It is all rigged, all permeated by mountains of lies repeated over and over by the lying lapdog media which pockets millions or billions in advertising revenue from Big Pharma. It is not about public (or private) health at all, but to make more billions for Big Pharma, to bloat the NIAID budget even more than it already is, while throwing a few crumbs to Big Pharma's supporting cast of house pets in the "public health" bureaucracy and academic world. They fully intend to keep this racket going forever—even if it kills you.

Kennedy hits the nail on the head when he concludes that "At the dawn of Dr. Fauci's career, he learned that both pandemics and *fake pandemics* provide an opportunity to expand the bureaucracy's power and to multiply the wealth of its pharma partners" (p. 360, emphasis added).

Recent lawsuit against Fauci and Misinformation

In some nations, the people hear only what the government wants them to hear. They get the party line and little else.

In USA, people believe that government officials conspired with tech companies to ensure that the official message would be the sole story that would be disseminated. This could soon enough be changing, and changing dramatically, too. On October 22, a federal court gave the green light to requiring testimony from White House officials in a case concerning coordinated government censorship in a number of arenas, including COVID.

A lawsuit filed by the state of Missouri contends that Fauci and other executive branch officials conspired to suppress free speech during the pandemic.

Were lockdowns effective? What about masks? These weren't questions that were broadly asked, or answered. Possibly, it seems clear, because debate was effectively shut down by government actors working with social media — Facebook and Twitter, most notably — to ensure that the people didn't get the wrong idea. Any idea besides the party line, that is.

In October 2020, the Great Barrington Declaration was published by three academics — Jay Bhattacharya, Sunetra Gupta and Martin Kulldorff — who appeared on the UnHerd to break the story. It marked a watershed moment in the pandemic, but the authors found their criticisms of Covid policy were increasingly censored on social media.

Now, alongside Martin Kulldorff and two other doctors, Bhattacharya is taking his case to the courts to prove collusion between the Biden administration and Big Tech to silence the signatories of the Great Barrington Declaration. Talking to UnHerd's Freddie Sayers, he lays out the evidence that social media companies were instructed to quell scientific views which opposed government lockdown measures. Who was responsible for this infringement? According to the legal case, the conspiracy extends to the highest levels of power in Washington, and primarily at fault is the Chief Medical Advisor to the President, Anthony Fauci.

Joining Bhattacharya was Jenin Younes, a lawyer involved in the case now developing in a federal district court, but which looks likely to eventually reach the Supreme

Court. Younes condemns the online censorship which resulted from governmental overreach, saying, "If you lose your Twitter account, for many people you're losing your voice and the ability to influence public opinion."

Former Democratic presidential candidate Tulsi Gabbard and former Texas Rep. Ron Paul tore into White House medical adviser Dr. Anthony Fauci and elites who allegedly "believe they are God."

During an appearance on "The Tulsi Gabbard Show", Paul criticized Fauci's previous declaration that he represents science during a November interview, stating that his rhetoric is about him striving to gain power and control. He argued that science is supposed to be debated and raise more questions, rather than having one individual claim authority on issues surrounding medical policies.

According to recent October court order from the United States District Court for the Western District of Louisiana, U.S. District Judge Terry Doughty concluded that Fauci's high-profile public comments have made him a key figure in the lawsuit from the Republican attorneys general of Louisiana and Missouri who allege that "collusion" between the Biden administration and social media companies to censor coronavirus-related speech that could be damaging to the White House.

"Plaintiffs argue that even if Dr. Fauci can prove he never communicated with social-media platforms about censorship, there are compelling reasons that suggest Dr. Fauci has acted through intermediaries, and acted on behalf of others, in procuring the social-media censorship of credible scientific opinions,

In addition to Fauci, several other current or former White House officials will be required to testify, including former White House press secretary Jen Psaki. The lawsuit names Nina Jankowicz, the head of the Department of Homeland Security's (DHS) new "Disinformation Governance Board, DHS Secretary Alejandro Mayorkas, the Centers for Disease Control and Prevention (CDC), the National Institute of Allergy and Infectious Diseases (NIAID), Department of Health and Human Services (HHS) Secretary Xavier Becerra, Surgeon General Vivek Murthy and Director of the Cybersecurity and Infrastructure Security Agency Jen Easterly are also named as defendants in the filing.

The lawsuit also points to You-Tube's censorship of conservative leaders Sen. Rand Paul, R-Ky., and Florida Gov. Ron DeSantis for questioning the effectiveness of wearing cloth masks during the pandemic.

"What we've uncovered so far is at least 45 folks from the Biden administration were in constant communication with these social media platforms to censor and suppress speech, had weekly calls, censorship calls, and these social media platforms were changing terms of service to deplatform folks," Schmitt said.

This week, ABC News reporter Jonathan Karl asked Dr. Anthony Fauci, the soon-departing head of the National Institute of Allergy and Infectious Diseases, if it was a "mistake" for schools to be shuttered as long as they were during the COVID-19 pandemic.

"We should realize, and have realized," Fauci answered, "that there will be deleterious collateral consequences when you do something like that," adding that he had "nothing to do" with schools clos-

Conclusion:

No conclusion as people are requested to see what happening around them.









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MALNUTRITION ACCELERATES THE METABOLIC AGE

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Summary

Nutrition is a vital determinant of the metabolism which in turn influences the life-span of an individual. In this article we summarize and discuss the effects of nutrition on metabolic age and its repercussions on various aspects such as early puberty, mid-life crisis and late-life hurdles.

Various ages of human

Every individual has three different ages: (a) **Chronological age,** which is a commonly known measure of an individual's age based on the calendar date of birth but virtually has little information about the status of individual's health. (b) **Phenotypic** or **biological age** is the age at which your body functions and is quite distinct from the chronological age because it is based on how old a body is according to different biomarkers (1). (c) **Metabolic age** which has direct relation to the phenotypic age and focuses on the physical health of an individual, and is estimated on the basis of basal metabolic rate (BMR). In medical parlance, the term metabolic age is preferred as it aptly describes the health of an individual and the underlying reasons for any ill-health. Ideally an individual

should have same or lower metabolic age compared to his/her chronological age. Aging is an inevitable process which occurs at different levels, either cellular, biochemical or at organelle level. Aging affects DNA, proteins, chromosomes, cells and ultimately it is manifested as an end of an individual's life. Several factors such as stem cell exhaustion, altered cellular communication, cell senescence, genome instability, telomere degradation, etc. are known to be involved in this continuous process (**Fig. 1**). Interestingly, nutrition is an important aspect that affects the age of an individual as it drives all the metabolic pathways.

Metabolic rate

Basal metabolic rate (BMR) is the amount of energy consumed in Kilojoules that is required for the

normal functioning of the body while resting and it constitutes the major portion of daily total energy (50-80%) requirement of our body. BMR depends on the fat-free mass, fat mass, age, and circulating thyroxine (Johnstone et al., 2005) (2) while metabolic rate (MR) represents the number of calories needed to fuel ventilation, blood circulation, and temperature regulation. The decrease in MR with age is due to the enormous fall in energy expenditure over years and loss of muscles. Metabolic rate is affected by a number of factors including the age, gender, muscle-to-fat ratio, physical activity and hormonal function. Considering the science behind the fat mass and obesity and its impact on health one can focus on the pattern of nutrition to improve the metabolic age. Nonetheless, to account for modern life style pattern, Mifflin and St Jeor in 1990 formulated a new equation to calculate BMR.

Harris - Benedict's BMR formula

Men

BMR = 66.47 + (6.24* weight in lbs) + (12.7* height in inches) - (6.755* age)

Women

BMR = 65.51 + (4.35 * weight in lbs) + (4.7 * height in inches) - (4.7 * age)

Nutrition- a key driver of metabolism

Nutrition is quite important for well-being at various stages of life as the nutrients intake of an individual in a generation may influence the process of ageing of an off-spring in the upcoming generation. Research has shown that ignorance of nutrition during pregnancy and lactation may reduce genomic defense mechanisms in the adult offspring brain, i.e. expression of base excision repair genes (a DNA repair system that corrects the lesions caused by oxidative damage).

Nutrients we consume generally contribute to two major forms in body – fat mass and fat-free mass.

Since, fat-free mass alone metabolizes it is pertinent to consider that portion which contributes to BMR and metabolism. Hence, the larger the fat-free mass in diet, greater will be the caloric expenditure. Fat mass is also equally important for maintaining the body temperature, cushioning joints and protecting internal organs.

Metabolic pathways regulate the cellular life span

Metabolic pathways are dependent on nutrition, which we supply as a fuel to our body (**Fig. 2**). Conventionally, humans have evolved to eat intermittently as they don't have access to the food. This evolutionary scheme stands true even today as calorie restriction (CR) contributes to the longevity and healthy cell cycle. CR is a phenomenon being suggested to delay age-related processes and to significantly extend the life span (3). Several researches on humans and mammals have demonstrated that the restriction of calories intake includes inhibition of potentially harmful changes that are typical of aging including the increased adiposity (4, 5).

Biologically, animals that are exposed to CR undergo changes in the proteome, transcriptome and metabolome, as well as increases in stress hormones (3). CR down regulates the production of thyroid hormone, insulin (and glucose), reproductive hormones, and GH/ IGF-1 levels thus modifying the cellular span and longevity. CR in humans effects less age-associated myocardial stiffness and autonomic dysfunction, lower core body temperature and down-regulation of the inflammatory pathways in skeletal muscles. Three sets of key proteins the sirtuin family of proteins, the insulin/insulin-like growth factor (IGF) signaling (IIS) pathway, and the mTOR which are ultimately involved in inflammation, stress defense, protein synthesis and cell survival and necrosis have been found to associated with the extended lifespan. These metabolic pathways are supposed to jointly promote the longevity and cellular fitness through activation of stress defense mechanisms, autophagy, and survival pathways while repressing pro-inflammatory mediators and cellular growth.

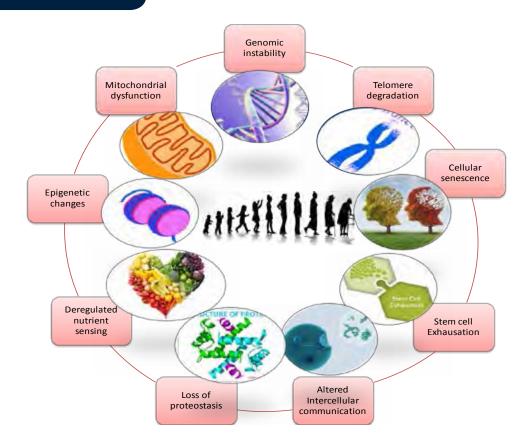


Fig 1. Factors influencing the metabolic age of an individual

Approximately 10% of cells and 1% of genes have evolved from humans and rest are derived from the microbes residing in gastrointestinal tract. Altered food intake, especially insoluble fiber and protein intake, have rapid and profound effects on the gut microbiota structure, function, and secretion of factors that modulate multiple inflammatory and metabolic pathways.

Mal-nutrition

Conventionally, malnutrition has been associated with the state of poverty, underfed and hunger. However, researchers have identified a paradox relating obesity and under-nutrition to inadequate diet and poverty. It can be distinguished as follows -1. **Undernutrition -** where individuals are unable to get proper food and nutrition. 2. Overnutrition - individuals have adequate calories intake but lack the dietary quality needed to promote optimal health. 3. Micronutrient deficiency - individuals feed adequately but the requirement for micronutrients cannot be fulfilled.

Micronutrient deficiencies affect the global health and cause malnutrition leading to the poor physical and mental development in children, vulnerability to disease, blindness, mental retardation and loss in productivity. According to World Health Organization (WHO), more than 2 billion people suffer from micronutrient deficiency globally.

Healthy life span: Under scanner

Continuous biological, physiological and psychological changes occur in our body during each phase of life and influence our health (physical and mental growth) (Fig 3). Globally 524 million people were of 65 years age and older in 2010 which is expected to increase to 1.5 billion by 2050 [NIA Global Health and Aging 2011]. Average life expectancy has consid-

erably increased due to the improvement and availability of vaccines and antibiotics for the life-threatening diseases. Simultaneously there has been an increase in the death rate due to the prevalence of non communicable diseases such as cancer, cardiovascular diseases (CVD), diabetes and obesity which accounted for 59% of the 56.5 million deaths globally (WHO 2003) which rose to 70% (41 million people) worldwide (WHO 2013).

Poor eating habits, lack of physical exercise, tobacco and alcohol consumption and pollution are the major causes. In high-income countries, expensive dietary supplements and proper hygienic conditions are accessible to old compared to their poor country counterparts. On the other hand, in low-income countries almost one in three dies under 5 years of age. Life expectancy is 62.7 years in low-income countries which is 18.1 years lower than in high-income countries (80.8 years). Poor maternal nutrition during pregnancy increases the risk of premature or low-birth-weight babies who suffer poor growth (stunted growth) and ill health during childhood and adolescence and postpartum haemorrhage. Also, under-nutrition during early childhood can negatively affect overall health, cognitive development, and school performance.

Early puberty

Puberty, a hormonal dependent process is initiated in late childhood and energy consumption increases during pubertal period. Nutrition is a key factor affecting puberty and nutritional demand is for both macro and micronutrient changes during pubertal progress and development. The normal age of puberty in males was 10-15 years while girls enter puberty between 8-13 years. Over the past few decades, the early onset of puberty in girls has been the norm and research had linked it to increasing rates of obesity in children. Higher pre-pubertal BMI, girls with low birth weight, inadequate and excessive intake of processed, high-fat foods cause obesity are related to early occurrence of puberty (6). Further, severe malnutrition also can delay the onset and progression of puberty. Adipose tissue has aromatase, which can produce estrogens from adrenal androgen precursors

(e.g., androstenedione) which promotes breast tissue development-a sign of puberty. Also obesity is linked with insulin-induced attenuations of sex hormone binding globulin (SHBG) which increases bioavailability of sex steroids including estradiol.

The other possible mechanism of role of obesity in early onset of puberty is involvement protein leptin, which is produced by fat cells and have direct stimulatory effects on GnRH and gonadotropin secretion both at the hypothalamic and the pituitary level (7). Also neuroendocrine link with energy status for pubertal development and maturation was found. GnRH neurons which are regulated by *Kiss* 1 gene were found responsible for the reproductive maturation. Studies revealed that hypothalamic *Kiss*1 neurons are very much sensitive to body energy status and metabolic status and showed inhibition of sexual maturation in conditions of negative energy balance (8).

Midlife crisis

Compared to midlife period during earlier times, now individuals in their 40's experience more stress which is often referred to as the midlife crisis. It is aptly called "Sandwich Generation" due to the burden of multiple responsibilities such as children, aging parents and also financial commitments. It is reported that parents having children expressed higher levels of depression and anxiety than their childfree years. Also stress at workplace is also associated with several health issues. In addition hormonal changes and decreased metabolism also cause midlife crisis. Midlife women are more prone to overweight and obesity. Women also experience menopausal stress during this phase of life. Physical changes that commonly occur during these years are weight gain, wrinkles, sagging skin, hair loss, muscle loss, decrease in BMR. Body fat starts accumulating in the abdomen in the elderly and causes disturbance in glucose and lipid metabolism which further disturb the normal physiological functions. Studies show that a small protein (growth factor) called BDNF (brain-derived neurotrophic factor) that plays an important function in survival and maintenance of neurons and synapses that are in-

volved in emotional and cognitive function (9) starts declining in midlife.

Late life hurdles:

The aging process generally results in lowering of brain functions and physical health. Lack of Vitamin D and calcium loss during late life causes changes in bone structure leading to weak bones. More often than not elderly suffers from backache, joint pain and reduced mobility. In addition, psychologically, older people also experience drop in socioeconomic status. Such critical stressors can result in isolation and loneliness or psychological distress in older people that may require long-term care. Cellular constituents are damaged to a great extent by ROS (reactive oxygen species) and ROS generation by mitochondrial respiratory chain increases with age which mainly damages the proteins, DNA and the accumulation of damaged DNA over time causes aging (10). Mitochondria plays important role in redox balance, calcium storage and apoptosis and mitochondrial functions also decline during late and old life.

Quality of life at old age:

During old life, decline in the physical and mental health of an individual occurs as our immune functions, organ system, and cellular functions including repair process start deteriorating. Dementia and other cognitive impairment are the most common disorders in the old life, with an estimated lifetime risk of 1 in 5 for women and 1 in 6 for men over 65 years of age. Certain evitable factors like modifying the environment, frequent social interactions, physical activities and proper intake of macro and micronutrients in midlife enhances the probability of maintaining cognitive health in late and old life. Moreover in late and old life, the incidence of diseases such as cardiovascular, neurovascular, Alzheimer's, cancer, diabetes, stroke and hypertension has been found to be increased.

To conclude, aging is a complex natural process controlled by genetic and environmental factors but improving our metabolism by reducing the impact of several factors can enhance our metabolic age and life span. Prevention of oxidative stress, physical activities to control BMR, proper balanced nutritional diet are major preventive measures for extending our life expectancy and improving metabolic age. Inclusion of regular physical activity provides protection against heart diseases, diabetes, arthritis, hypertension, certain cancers and depression.

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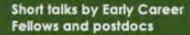
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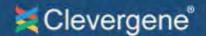
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BUSINESS EVENTS PERTH

Australia's biggest week in biotech kicks off in Perth

26/10/2022 8:00 AM

The McGowan Government, with Business Events Perth, committed \$450,000 to bring AusBiotech 2022, Australia's annual flagship life sciences conference, to Perth for the first time in 15 years.

Medical Research and Innovation and ICT Minister Stephen Dawson officially opened the conference, alongside AusBiotech Chief Executive Officer Lorraine Chiroiu. State Development, Jobs and Trade Minister Roger Cook opened AusBioInvest 2022 with Ms Chiroiu.

The final day of the conference, Health Minister Amber-Jade Sanderson introduced President and CEO of the Texas Medical Centre (TMC), William F McKeon. TMC is widely recognised as the home of the largest collection of hospitals, clinicians, and researchers in the world.

Mr McKeon is one of six world-class speakers who delivered a keynote address during the conference.

WA's Director of the Burns Service, and 2005 Australian of the Year, Professor Fiona Wood gave a keynote

address on the story of spray-on-skin cells.

Other major speakers include Director Global Outreach at Stanford Biodesign, Adjunct Professor Anurag Mairal, Senior Director External Innovation Australia & New Zealand at Johnson & Johnson Innovation, Kathy Connell, and Distinguished Professor at the University of Colorado, Marvin Caruthers.

Comments attributed to State Development, Jobs and Trade Minister Roger Cook:

"With our rapidly growing health and medical life sciences industry, WA can play a leading role in developing healthcare solutions for the future.

"The WA Government is committed to growing investment in the industry, which has the potential to help diversify the State's economy and create long-term, fulfilling jobs for Western Australians.

"Business events act as a catalyst and a front door for trade and investment. AusBiotech 2022 and AusBio-Invest 2022 are a platform for current and future biotech leaders to pitch their new products to potential investors, creating new opportunities and collaborations."

Comments attributed to Innovation and ICT and Medical Research Minister Stephen Dawson:

"The Ausbiotech conference is an incredible opportunity for our local research sector to showcase our achievements and our home-grown talent to a global audience.

"WA is home to some of the most innovative health and medical research programs being undertaken anywhere in the world.

"There has never been a better time for Perth to host AusBiotech 2022. It is a prime time to broadcast our successful and burgeoning medical research and technology sector that has the potential to improve lives around the world."

- Australia's largest life sciences conference, AusBiotech 2022, returns to Perth for the first time in 15 years
- More than 1000 delegates registered to attend AusBiotech 2022 and 300 registered for Aus-BioInvest 2022 over the next three days
- McGowan Government releases new prospectus promoting investment opportunities in the State's growing health and medical life sciences industry

More than 1,300 science experts and investors from around the country and the world gathered in Perth for Australia's biggest week in biotech at the AusBiotech 2022 conference.

Featured Biotech News

\$3 trillion growth reported for biotech sector



October 27, 2022

The Biotechnology Innovation Organization (BIO) and the Council of State Bioscience Associations (CSBA) has released new data on the US bioscience industry, indicating it was valued at \$2.9 trillion dollars in 2021. The report also found that in 2021, the US industry employed 2.1 million people in over 127,000 businesses.

The investigation identified that in the pandemic, the economy reduced 1.5

percent of its workforce. Since 2018, employment numbers in the industry have grown by 11 percent, totalling \$2.9 trillion dollars in 2021. Sectors such as research, testing, medical labs and pharmaceutical manufacturing expanded greatly during the pandemic, due to high demand for COVID-19 therapeutics.

For instance, small and mid-sized biotech companies invested heavily in developing vaccines. To date, 747 novel compounds are in production.

The report stated that in 2022, the industry successful navigated:

- Global inflation
- Sluggish economic growth
- Slow progress in US National Institutes of Health (NIH) funding and academic R&D
- · Ongoing supply chain challenges.

Data demonstrated that other recent factors such decline in patent awards and applications have impeded economic development.

"This data highlights the vital role US bioscience companies have in creating high-wage jobs and stimulating the economy.

The report further shows the industry's enormous role in navigating the COVID-19 pandemic, both in terms of getting life-saving therapies and vaccines to patients, as well as economic recovery," stated Pete Pellerito, BIO Senior Policy Adviser for Federal and State Economic Development and Technology Transfer Initiatives.

Australia and India approves commercial release of GM variety of Indian mustard



October 24, 2022

Scientists say this could be first such approval for a GM variety of Indian mustard anywhere in the world

The regulatory authority in Australia approved the commercial cultivation of the genetically modified Indian mustard species called 'Brassica juncea' for herbicide tolerance a few weeks ago.

Scientists said this is, perhaps, the first time a genetically modified variety of Indian mustard has received commercial approval anywhere in the world.

So far, the canola (Brassica napus) is perhaps the only genetically modified mustard variety that has been cleared for commercial application.

GM canola has been in cultivation since 1996 in several countries across the world including Canada, the USA, and even in Australia. Canola is a temperate species of mustard.

At present, Indian mustard varieties are commercially cultivated in a very small part of Australia, mainly in Central New South Wales and western Victoria.

"The regulator has not imposed any specific measures to manage risk, as the risk assessment con-

cluded that this release of GM Indian mustard poses negligible risk to the health and safety of people or the environment. General conditions have been imposed to ensure that there is ongoing oversight of the release," a statement posted on the website of Australia's Office of Gene Technology Regulator (OGTR) said. New GM Indian mustard genetically modified for tolerance to Glufosinate Ammonium is approved for commercial cultivation in all mustard growing areas of Australia," Bhagirath Choudhary,

founder director of the South Asia Biotechnology Centre (SABC), wrote in a social media post a few days ago.

He said though India is a major producer of 'Brassica juncea' variety of mustard, it has been evaluating the biosafety and field efficacy of GM mustard for almost 20 years now.

"The indigenous GM mustard variety has been developed by Deepak Pental and a team of scientists at University of Delhi and funded entirely by National Dairy Development Board and Department of Biotechnology, India," Choudhary said.



Court Orders CDC to Release Data Showing 18 Million Vaccine Injuries in America

OCTOBER 14, 2022

More than 18 million people were injured so badly by their first COVID shot from Pfizer or Moderna that they had to go to the hospital. That's according to the CDC's own internal data, which a court just ordered the federal agency to release to a watchdog group.

Instead of alerting the public to the incredible dangers of these shots and completely shutting down Joe Biden's mass vaccination mandates, the CDC covered up the info until it was forced to release. Everyone in a position of authority at the CDC should be fired for this. What good is a "public health" agency if it fails to alert the public that 8% of vaccine recipients are being hospitalized?

The CDC started a vaccine monitoring program back at the very beginning of

the COVID shot rollout in December of 2020. You might remember it. The program was called V-safe. People were asked to install the V-safe app on their smartphones and then self-report if they have any negative effects from the experimental mRNA shots, which were released to the public under an Emergency Use Authorization from the FDA.

A lot of people were eager to help, be-

Featured News

cause world governments had scared many folks very badly over the virus. Many thought that the COVID shots were a medical miracle in late 2020. So, more than 10 million people downloaded V-safe on their smartphones, and then proceeded to get vaccinated.

That's a huge sample size for a medical study. With 10 million people participating in the V-safe self-reporting system, it gives us an extremely accurate statistical model to use when studying the 230 million Americans who have had at least one COVID shot.

The CDC tracked data in the V-safe program for the first 18 months of the vaccine's public availability, up through July of this year. But then, strangely, the CDC never published any data from V-safe. We couldn't see it. We just had to trust the CDC, which had been caught lying repeatedly.

The CDC's main webpage about the mRNA COVID shots still says, to this

very day, "COVID-19 vaccines are safe, effective and free." That's the very first sentence on the website. Safe and effective! That's been the CDC's position for the entire time. The vaccines are safe, and they cannot hurt you.

If that's true, then why wouldn't the CDC release the data until a court ordered it to do so following a lawsuit by the Informed Consent Action Network (ICAN)? The data speaks for itself.

Of the 10 million people who participated in V-safe - again, a massive sample size – 3.3 million reported Adverse Health Impacts (AHIs) immediately after their first vaccination.

That's 33% or one-in-three. Of those 3.3 million people, 1.2 million reported that they were unable to perform daily activities for a time after vaccination. 1.3 million reported getting so sick from the shots that they had to miss school or work. And about 800,000 reported being hospitalized by their COVID vaccination.

That last figure is the most worrisome. 800,000 hospitalizations out of 10 million people? That's an 8% hospitalization rate. It means that as many as 18 million of the 230 million people who received at least one shot may have been hospitalized with an adverse reaction.

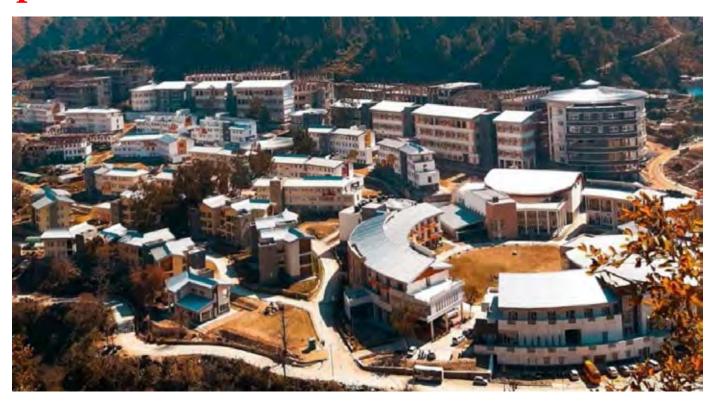
A study published in June of 2021 by the National Institutes of Health - where Tony Fauci works - found that the hospitalization rate from COVID-19 for the total population was 2.1%. If you are under the age of 40, the hospitalization rate from COVID-19 is just 0.4%.

For the shots, the hospitalization rate has been 8%. This means that:

YOU ARE 4 TIMES AS LIKELY TO BE HOSPITALIZED BY THE VACCINES THAN BY COVID ITSELF, NO MATTER WHAT AGE GROUP YOU ARE IN.

YOU ARE 20 TIMES AS LIKELY TO BE HOSPITALIZED BY THE SHOTS IF YOU ARE UNDER AGE 40 THAN BY COVID ITSELF.

IIT Mandi researchers develop simple & portable device to detect ischemic stroke



September 29, 2022

Researchers at the Indian Institute of Technology Mandi, in collaboration with PGMIER Chandigarh, have proposed and developed a simple, portable and cost-effective device to detect and diagnose stroke caused by impaired blood flow to the brain.

A research paper describing the device and its operation was recently published in IEEE Sensors Journal. The paper was co-authored by Dr Shubhajit Roy Chowdhury, Associate Professor, School of Computing and Electrical Engineering, IIT Mandi, and his student Dalchand Ahirwar along with Dr Dheeraj Khurana, Post Graduate Institute for Medical Education and Research, Chandigarh.

Ischemic stroke caused by insufficient or interrupted blood supply to part of the brain affects one of every 500 Indians every year.

Surveys have shown that around 10 percent to 15 percent of all strokes affect people below 40 years of age. The efficient management and treatment of stroke depends upon early identification and diagnosis.

Currently, magnetic resonance imaging (MRI) and computer tomography (CT) techniques are considered the gold standard for ischemic stroke detection. While these are indeed reliable methods, they require considerable infrastructure and high cost, and are inaccessible to many communities in India there is only one MRI service for every 1 million people in the coun-

try.

"Our team has designed and developed a small wearable device that makes use of Near Infrared Spectroscopy to detect ischemic stroke. In this device, a near-infrared light emitting diode (NIRS LED) emits light in the range of 650 nm to 950 nm", added Chowdhury.

The IIT Mandi team performed studies measuring the bio-markers under ischemic conditions at the forearm and at the frontal lobe of the brain. The researchers also validated their detector prototype through experimental occlusion of the forearm and evoked ischemic stroke at the frontal lobe, and found excellent diagnostic potential.

IIT Roorkee researchers identify proteins in saliva that can predict triple negative breast cancer



September 30, 2022

Researchers from the Indian Institute of Technology Roorkee have identified and validated three proteins found in saliva, which can predict metastatic triple negative breast cancer (TNBC).

They developed a process by which biomarkers for TNBC can be identified in saliva, a press release from the institute said.

The team's diagnosis method is based on salivary gland function, which is impaired in people with breast cancer. Their protein composition is also altered. Thus, an effective biomarker can be obtained if the difference can be identified and quantified, it said.

According to the researchers, breast cancer is the most common type of cancer in women in India, with more than 1.6 lakh cases registered and more than 80,000 deaths per year.

About 10 to 15 per cent of all breast cancers are metastatic TNBC, the most aggressive form that does not respond to the usual hormonal and HER2-protein targeting drugs, they

The research team was led by Kiran Ambatipudi, associate professor, Department of Biosciences and Bioengineering, IIT Roorkee. Doctoral students Kuldeep Giri and Sudipa Maity were the other two members of the team.

"Delayed detection is the primary reason for the high morbidity rate of breast cancer patients in India. This necessitates the development of techniques that are not only non-invasive but also sensitive enough to detect cancers in their early stages," Ambatipudi said.

Need to set up 20 active sentinel sites in country on adverse events following immunisation: expert

October 22, 2022



Dr N K Arora, head of the Covid-19 working group of the National Technical Advisory Group on Immunisation, says pharmacovigilance is extremely important because community trust hinges on vaccine safety.

CHAIRMAN OF the Covid-19 working group, National Technical Advisory Group on Immunisation (NTAGI), Dr NK Arora said that at least 20 active sentinel surveillance sites need to be set up in the country for any immunisation-related adverse events. "Adverse events following immunisation (AEFI) surveillance is at the core of any vaccination programme and we need to set up at least 20 active sentinel surveillance sites in the country," Dr Arora said.

He was in Pune to participate in a

panel discussion at the 23rd annual general meeting of the Developing

> Countries Vaccine Manufacturers Network.

> "Just like polio surveillance, where there is an active search for cases of acute flaccid paralysis (AFP), we need to set up these sites one each in 20 states so that a strict watch can be kept on deaths and hospitalisations,"

Dr Arora told reporters. "We need to keep an eye on any conditions and see if there are linkages following vaccination," he added.

Routine programme AEFI surveillance particularly in developing countries is poor. Health systems are not robust enough and hence sentinel sites are important to build community trust and confidence, which is primarily driven by vaccine safety.

"Post Covid-19 pandemic, the whole scenario has changed and the time when it used to take 8 to 10 years for a vaccine is over. Now, vaccines will be brought into the community market much faster. Therefore, safety evaluation is very important. Never have so many platforms been used for making vaccines and manufacturing as it has happened in the last two and a half years. Safety, however, is a constant concern and as we move forward with vaccine development, vaccine safety surveillance becomes very important," Dr Arora said.

When asked about adverse events among children, Dr Arora said that hospitalisations and deaths related to children post-vaccination were not associated with the Covid-19 vaccine. "We have done evaluations of hospitalisation and death related to children reported after vaccination and none of them was associated with Covid vaccines — Corbevax and Covaxin," he said.

AEFI assessment requires clinical, epidemiological and programmatic knowledge and a synthesis of these three eventually helps understand whether the adverse event was related to a vaccine.

Dr Arora referred to a cluster of adverse events following immunisation recently in Africa and said in-country expertise was not available to investigate the cause. "Hence, hand-holding is necessary and global institutions like WHO and UNICEF can provide technical support," he said.

Dr V G Somani, Drug Controller General of India, who participated in the session virtually gave an account of the challenges and lessons learnt during the pandemic. "Lockdown was a big challenge," he said.



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SCAN TO APPLY



Pfizer admits COVID vaccine was never tested for transmission



October 11, 2022

In a startling disclosure at the EU COVI Hearings in Brussels on the 10th of October 2022, Janine Small admitted in response to a question posed by Dutch MEP Robert Roos that the Pfizer mRNA vaccine was never tested or shown before its release, to impact the transmission of the SARS-NCOV2 virus. In other words, whether the vaccine did, prevent transmission of Covid from one person to another.

Roos then immediately took to social media at the conclusion of the hearing, questioning on what basis governments within the EU had justified Covid vaccine passports if the vaccine was unable to affect the transmissibility of the virus. The main reason that people were vaccinating to protect each other was based on a fiction.

From a medical perspective, this admission matters tremendously.

If the vaccines offered little to no communal benefit of protection against the transmission of the virus, the justification for, for instance, vaccinating school children is questionable. The known risks of the vaccines and listed SAEs far outweigh the benefits to this population.

By extension, the same logic can be applied to young and healthy adults not at risk from any comorbidities.

It would appear that the argument offered by Governments and Health bodies for the public to act in the interests of protecting their fellow citizens was nothing less than disingenuous.

A fabrication designed to coerce public compliance, exposing yet another fundamental flaw in the global management of the Covid pandemic.

Protest held against SII, Bill Gates over 'deaths after taking Covid-19 vaccine'



October 2, 2022

A group of activists on Saturday staged demonstrations in Pune against the Serum Institute of India (SII) and Microsoft founder Bill Gates in connection with the death of a doctor following her vaccination against Covid-19.

Hearing a plea filed by Snehal's father Dilip Lunawat, the HC had recently issued notices to the state

government, Union government, SII and Bill Gates.

Lunawat alleged that his daughter Snehal died due to the side effects after she was administered both doses of Covishield under the state's initiative to vaccinate healthcare workers against Covid-19. Snehal passed away on March 1, 2021.

He claimed that health workers

like his daughter were compelled to take the vaccines due to "false narratives" from the authorities.

Lunawat sought a compensation of Rs 1,000 crore from the respondents. While hearing the matter on August 26, the bench of Justice Sanjay V Gangapurwala and Justice Madhav J Jamdar, sought response from the authorities during the next hearing on November 17.

The Gates Foundation is Researching How to Manipulate You Into Taking 'Future' COVID Vaccines



SEPTEMBER 22, 2022

The Bill and Melinda Gates Foundation is now funding studies on how to best manipulate people to receive "future" COVID-19 vaccines - including "targeted" messaging and financial compensation - despite studies continuing to show links between the vaccine and myocarditis.

Researchers supported by the Gates Foundation published a study aimed at curbing vaccine hesitancy titled "Overcoming Vaccine Hesitancy for Future COVID-19 and HIV Vaccines: Lessons from Measles and HPV Vaccines."

Released on August 11th, researchers carried out a "narrative review of studies on interventions to address measles. and human papillomavirus vaccine hesitancy" to cross-apply the lessons learned towards future vaccines.

Researchers explicitly reference making people more likely to receive "future" COVID-19 vaccines as their primary goal, concluding that "the most successful interventions directly targeted the population for vaccination."

"Use of financial incentives could be a potential tool to improve vaccine uptake," continues the paper, which drew its analysis from a review of over 150 scientific articles.

"Message framing is a powerful tool for vaccine promotion; however, messages should be carefully framed and should be targeted to the population of interest. Financial incentives, free-of-charge vaccines, and use of vaccine champions should be considered in future vaccine promotions as they were successful in increas-

ing both measles and HPV vaccine coverage rates," concludes the study, which also advocates implementing vaccine programs in "schools, universities, or healthcare settings to target adolescents and/or adults."

The study comes amidst a roll-out of advertisements focusing on myocarditis in children, which studies have repeatedly demonstrated to be a side effect of the COVID-19 vaccine.

The New York Presbyterian Hospital, for example, uploaded a video advertisement to its Youtube channel titled "Pediatric Patient Story - Suri (30s version)" on September 6th.

"In men younger than 40 years old, the number of excess myocarditis events per million people was higher after a second dose of mRNA-1273 than after a positive SARS-CoV-2 test (97 [95% CI, 91-99] versus 16 [95% CI, 12-18])."

"In women younger than 40 years, the number of excess events per million was similar after a second dose of mRNA-1273 and a positive test (7 [95% CI, 1-9] versus 8 [95% CI, 6–8]," added the paper.

In addition to the potential drawbacks of receiving a COVID-19 vaccine, other studies have demonstrated that the product doesn't confer immunity as well natural antibodies or as promised by the pharmaceutical companies manufacturing the vaccines.

Salman Khan's body double Sagar Pandey dies of suspected heart attack



Salman Khan body double Sagar Pandey died due to heart attack.

Superstar Salman Khan's body double, Sagar Pandey breathed his last today. He is suspected to have suffered a heart attack while going to the gym, reportedly. According to ABPLive, the unfortunate incident took place in the afternoon on Friday.

Salman Khan took to Instagram and mourned his body double's untimely demise. He wrote: Dil se shukar adda kar raha hoon for being there with me. May your soul rest in peace brother Sagar. Thank u #RIP #SagarPandey Reacting to the news, actress Sangeeta Bijlani, and Egyptian influencer Rania Yehia also offered condolences.

Sagar Pandey had reportedly acted in over 50 films with Salman Khan. He worked as a body double for the Bhaijaan in 'Bajrangi Bhaijaan', 'Tubelight', 'Prem Ratan Dhan Payo', 'Dabangg', 'Dabangg 2' and even in 'Bigg Boss'. Shah Rukh Khan's lookalike Raju Raikwar, who happens to be a close friend of Sagar Pandey told ABP News that Pandey was rushed to Suvidha Hospital after he had a heart attack at the gym.

The doctors, however, recommend taking him to Balasaheb Thackeray Trauma Center Hospital in Jogeshwari. He was brought by two gym instructors.



UP: Govt School Vaccinates 150 Kids Without Consent; Many Hospitalised

OCTOBER 1, 2022

Nearly 50 students were admitted to hospital allegedly after they received vaccination jab forcefully by a government school in Uttar Pradesh' Aligarh.

As per media reports, around 150 students were locked in a government primary school where they given vaccine jab forcefully. After which, health condition of one third of the student started deteriorating.

They were immediately rushed to

the CHC after they complaint of stomach ache, vomit and high fever. When the kids were enquired, they alleged that the school had locked them up in a room and even beaten them to get the vaccine dose.

The parents revealed that they were unaware about the vaccination programme. They revealed that they were never asked for their consent.

One of the parents said that he took his kid to hospital when the child complained of high fever after returning from school. The parent said he was clueless about the vaccine.

Meanwhile, the CHC incharge said the kids were given vaccine dose of TD and DTP under a campaign for booster dose. He said the side effects are normal and parents have been told precautionary measures.

Aligarh Police Responds

Reacting to a post, the Aligarh Police made a clarification saying that all the children are healthy. Only three kids have complaint of pain at the spot where the vaccination was given.

Top cardiologist calls for halt to COVID vaccination





New research paper concludes that dangers to cardiac health outweigh benefit. "Heart cells cannot be replaced," Dr. Malhotra stresses.

Sep 29, 2022

Dr. Aseem Malhotra was originally a staunch defender of COVID vaccines, but after his father, who was previously healthy with no heart issues, passed away due to a sudden cardiac arrest, he began to investigate the evidence that the vaccines are safe and effective, as the FDA and CDC claim. Being a cardiologist who had seen his father's diagnostic test results prior to his COVID shots, tests that confirmed his good state of health, he knew that there was no rational explanation for the blockages found in his father's arteries after his death.

Among the evidence cited by Malhotra is a study published in the journal

Vaccine, which concluded, based on data from the trial studies conducted by Pfizer and Moderna, that the risk of being hospitalized due to an adverse reaction to the vaccine is greater than any protection the vaccine provides from hospitalization due to COVID.

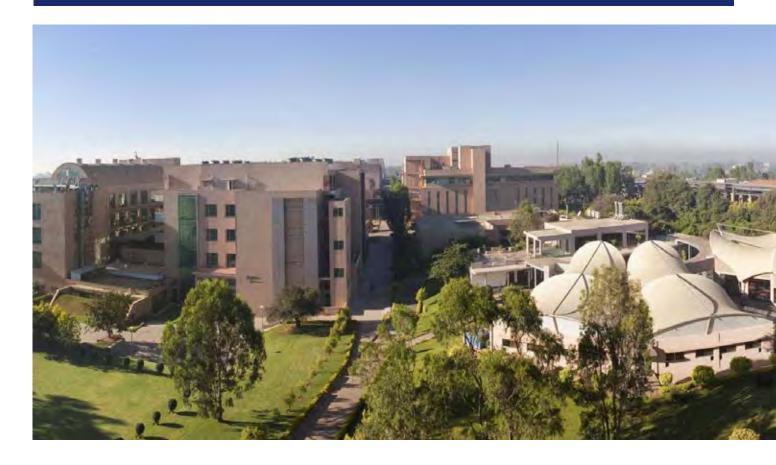
Malhotra also cites data from both the United Kingdom and Israel that shows a sharp uptick in cardiac events requiring emergency treatment following the vaccine rollout, an uptick that was not observed in the first year of the pandemic, prior to the distribution of vaccines.

Dr. Malhotra also points out that "contrary to popular belief, what the [Pfizer] trial did not show was any

statistically significant reduction in serious illness or COVID-19 mortality from the vaccine." In fact, he notes, "there were only two deaths from COVID-19 in the placebo group and one death from COVID-19 in the vaccine group." However, "Looking at all-cause mortality over a longer period, there were actually slightly more deaths in the vaccine group," he stresses.

"It's important to acknowledge that the risks of adverse events from the vaccine remain constant, whereas the benefits reduce over time," he concludes. "A pause and reappraisal of vaccination policies for COVID-19 is long overdue."

Biotech Industry News



Biocon Biologics Out-Licenses Two Biosimilar Assets to Yoshindo for Commercialization in Japan

Oct 12, 2022

Biocon Biologics has entered into a strategic out-licensing agreement with Japanese pharmaceuticals company Yoshindo Inc. for commercializing two of its pipeline biosimilar assets, bUstekinumab and bDenosumab, in

the Japanese market.

Under the terms of this deal, Yoshindo gets exclusive commercialization rights in Japan for bUstekinumab and bDenosumab developed and manufactured by Biocon Biologics, for an addressable market opportunity of ~USD 700 million#. Biocon Biologics will receive an upfront license fee as well as additional payments on the achievement of certain development milestones over the next few years. The financial terms of the agreement are confidential.

Ustekinumab, a biosimilar referencing Stelara®, is a monoclonal antibody

Industry News

used to treat several autoimmune conditions, including psoriasis, Crohn's disease, ulcerative colitis, plaque psoriasis and psoriatic arthritis. Denosumab, a biosimilar referencing Prolia*, is a monoclonal antibody for the treatment of osteoporosis.

Shreehas Tambe, Deputy Chief Executive Officer, said: "We are excited to partner with Yoshindo to commercialize two of our pipeline biosimilar products, bUstekinumab and bDenosumab, in Japan.

This partnership is testament to Biocon Biologics' proven capabilities in R&D, global scale manufacturing and quality compliance. Once approved, these products will expand our offering of affordable, high quality biosimilars in the Japanese market and help address unmet patient needs in bone health and immunology therapy areas."

The strategic partnership with Yoshin-do will build upon Biocon Biologics' successful progress in its global development programs for these two biosimilar assets. Clinical trials for these two assets commenced in FY22 and include both Phase 1 and Phase 3 clinical trials backed by robust pre-clinical CMC packages.

To provide patients access to affordable biologics and enable health equity, Biocon Biologics is developing a broad portfolio of 20 biosimilar assets either independently or through strategic partnerships.

Biocon Biologics became the first company from India to commercialize a biosimilar in Japan, after its Insulin Glargine was successfully launched in Japan by another partner in 2016.

Novartis' Zolgensma Under Fire Again as Nature Retracts 2010 Paper

September 27, 2022

Novartis' gene therapy Zolgensma is again under a cloud of doubt after Nature Biotechnology retracted a 2010 article featuring early data on the treatment over data manipulation concerns.

Two years after the FDA closed its Zolgensma data manipulation investigation, Nature Biotechnology retracted its 2010 article titled, "Rescue of the spinal muscular atrophy phenotype in a mouse model by early postnatal delivery of SMN," noting "issues" regarding data cited in a key figure in the report. Original source data provided earlier this year showed multiple inaccuracies in mouse models that were used to indicate the therapeutic promise.

The error was in a Kaplan–Meier curve that represented the survival of mice with spinal muscular atrophy that received either Zolgensma or a control scAAV9-GFP vector.

The article's initial data showed that six mice survived for more than 250 days. However, earlier this year, the original data showed that only one of the treated mice lived.

In its retraction statement, Nature Biotechnology said its editorial team is "of the opinion that the extent of the inaccuracies in Fig. 1e and associated text undermines full confidence in the study."

The now-retracted paper was a foundational study that led to the SMA gene therapy treatment being greenlit for in-human studies. Those clinical studies, including the pivotal Phase III STRIVE trial, showed that Zolgensma treated SMA patients with unprecedented survival rates.

The revelation of early data manipulation concerns regarding Zolgensma's early animal studies was first realized in 2019, one year after Novartis acquired Illinois-based AveXis, the creator of the gene therapy, for \$8.7 billion.

In the wake of the data manipulation, Novartis terminated Brian and Allan Kaspar, AveXis' chief scientific officer and head of research and development, respectively. The Kaspars are both founders of AveXis. The Swiss pharma giant placed the blame squarely on their shoulders.

In its response to the FDA, Novartis said the two brothers "personally manipulated or instructed others to alter some of the preclinical data" that led to the approval of the gene therapy. The company acknowledged the manipulation concerned the recorded deaths of the mice used in preclinical studies, which played a key role in the now-retracted article.

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Bad Science



Hindawi and Wiley to retract over 500 papers linked to peer review rings

After months of investigation that identified networks of reviewers and editors manipulating the peer review process, Hindawi plans to retract 511 papers across 16 journals, Retraction Watch has learned.

The retractions, which the publisher and its parent company, Wiley, will announce tomorrow in a blog post, will be issued in the next month, and more may come as its investigation continues. They are not yet making the list available.

Hindawi's research integrity team found several signs of manipulated peer reviews for the affected papers, including reviews that contained duplicated text, a few individuals who did a lot of reviews, reviewers who turned in their reviews extremely quickly, and misuse of databases that publishers use to vet potential reviewers.

Richard Bennett, vice president of researcher and publishing services for Hindawi, told us that the publisher suspects "coordinated peer review rings" consisting of reviewers and editors working together to advance manuscripts through to publication. Some of the manuscripts appeared to come from paper mills, he said.

We asked what prompted the investigation. Bennett told us: In April 2022, Hindawi's Research

Bad Research

Integrity team led an initial investigation into a single Special Issue (SI) after a Chief Editor raised concerns about some of the papers published in it. The team decided to investigate the content of the journal further. Through this investigation, the team highlighted a pattern of irregular and concerning reviewer activity and identified potential 'bad actors' that were present across many of these publications.

These concerns prompted the Publishing Insights and Research Integrity teams, enabled by recently enhanced analytic capabilities and newly developed dashboards providing views across all reviewer activity, to conduct a wider investigation to determine whether these same bad actors were involved in peer review manipulation elsewhere in the Hindawi portfolio.

Following the discovery that these bad actors were present in other journals, the Hindawi leadership team put in place a cross-functional working team combining the manual and data-driven investigation which resulted in the identification of further published articles.

In early August, Hindawi expanded the investigation under a combined investigation team comprising Research Integrity experts, data and analytics experts, publishing and operational teams, and legal counsel from both Wiley and Hindawi. This team evaluated in depth review activity across all potentially impacted articles and manuscripts. This resulted in a list of 'compromised' reviewers and editors in addition to the bad actors already discovered, identification of networks that exist between them, patterns of review activity, and insight into published articles and manuscripts at each stage in the review process that we could initially label as 'compromised'.

On September 6, the combined investigation team began assessing published articles which led to the initial recommendation to retract 511 articles that are compromised based on reviewer activity alone. We expect ongoing investigations to result in further retractions.

The publisher also held up the review and production of submitted manuscripts in which "potentially compromised" individuals were involved, and will begin assessing those articles.

We asked about what Hindawi will do to prevent something similar from happening again, but Bennett declined to share specifics, "as we believe it will simply open up new targets for those who seek to exploit a system based on trust."

He did say that the publisher has banned the individuals its investigation identified, will contact research integrity officers or department heads as appropriate, and has shared its findings with industry groups:

It is increasingly apparent to all involved in safeguarding and investigating issues of research integrity that closing rings down at one publisher can simply move the problem to others. We are committed to taking an active role in preventing that.

Other publishers have announced large batches of retractions recently. IOP Publishing earlier this month said it planned to retract nearly 500 articles likely from paper mills, and PLOS in August announced it would retract over 100 papers from its flagship journal over manipulated peer review.

In a prepared statement, Liz Ferguson, Wiley senior vice president of research publishing for Wiley, said that



attacks on research integrity such as paper mills, manipulated peer review, and image duplication and doctoring "are sophisticated and appear to be coordinated."

Her statement continued:

As these attacks increase in frequency and intensity, we remain committed to upholding research integrity throughout our publishing programs. We have and will continue to share our findings with our peers and industry bodies to advance a cross-industry approach. This is absolutely essential to safeguard trust in research.

It's something that we at Wiley are committed to and as a result we have taken the step of sharing our findings as transparently as possible, not just with our peers, but with industry associations, third party databases, and others.

These conversations have been very constructive. Our industry is one of trust – this remains our greatest asset. Only through concerted and collaborative action will we succeed together. This is our goal, and Wiley and Hindawi will continue to advance it tirelessly.

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